



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Substitute for form 1449A/PTO | | | | Complete if Known | |
|---------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|---------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Application Number | 10/597,635 |
| | | | | Filing Date | August 2, 2006 |
| | | | | First Named Inventor | Omer EINAV |
| | | | | Art Unit | Not Yet Available |
| | | | | Examiner Name | Not Yet Available |
| Sheet | 1 | of | 5 | Attorney Docket Number | 34636 |
| U.S. PATENT DOCUMENTS | | | | | |
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date DD-MMM-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | 1 | US-2002/0064438 | 30-May-2002 | Osborne Jr. | |
| | 2 | US-2003/0032524 | 13-Feb-2003 | Lamar et al. | |
| | 3 | US-2003/0199370 | 23-Oct-2003 | Bucay-Bissu | |
| | 4 | US-2004/0172097 | 02-Sep-2004 | Brodard et al. | |
| | 5 | US-2004/0180768 | 16-Sep-2004 | Almada | |
| | 6 | US-2004/0245838 | 09-Dec-2004 | Chiu | |
| | 7 | US-2005/0261114 | 24-Nov-2005 | Heitzman et al. | |
| | 8 | US-2006/0229164 | 12-Oct-2006 | Einav | |
| | 9 | US-2006/0277074 | 07-Dec-2006 | Einav et al. | |
| | 10 | US-2006/0293617 | 28-Dec-2006 | Einav et al. | |
| | 11 | US-2007/0299371 | 27-Dec-2007 | Einav et al. | |
| | 12 | US-3,919,691 | 11-Nov-1975 | Noll | |
| | 13 | US-4,499,900 | 19-Feb-1985 | Petrofsky et al. | |
| | 14 | US-4,582,049 | 14-Apr-1986 | Ylvisaker | |
| | 15 | US-4,724,842 | 16-Feb-1988 | Charters et al. | |
| | 16 | US-4,921,244 | 01-May-1990 | Berroth | |
| | 17 | US-4,936,299 | 26-Jun-1990 | Erlandson | |
| | 18 | US-5,048,826 | 17-Sep-1991 | Ryan | |
| | 19 | US-5,070,873 | 10-Dec-1991 | Graupe et al. | |
| | 20 | US-5,193,539 | 16-Mar-1993 | Schulman et al. | |
| | 21 | US-5,193,540 | 16-Mar-1993 | Schulman et al. | |
| | 22 | US-5,211,161 | 18-May-1993 | Stef | |
| | 23 | US-5,244,441 | 14-Sep-1993 | Dempster et al. | |
| | 24 | US-5,269,318 | 14-Dec-1993 | Nashner | |
| | 25 | US-5,312,439 | 17-May-1994 | Loeb | |
| | 26 | US-5,324,316 | 28-Jun-1994 | Schulman et al. | |
| | 27 | US-5,391,128 | 21-Feb-1995 | DeBear | |
| | 28 | US-5,397,865 | 14-Mar-1995 | Park | |
| | 29 | US-5,405,367 | 11-Apr-1995 | Schulman et al. | |
| Examiner Signature | | | | Date Considered | |

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14, this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|--------|
| | | | | Application Number | 10/597,635 | |
| | | | | Filing Date | August 2, 2006 | |
| | | | | First Named Inventor | Omer EINAV | |
| | | | | Art Unit | Not Yet Available | |
| | | | | Examiner Name | Not Yet Available | |
| Sheet | 2 | Of | 5 | Attorney Docket Number | 34636 | |
| U.S. PATENT DOCUMENTS | | | | | | |
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| | | Number-Kind Code ² (if known) | | | | |
| | 30 | US-5,454,774 | 03-Oct-1995 | Davis | | |
| | 31 | US-5,466,213 | 14-Nov-1995 | Hogan et al. | | |
| | 32 | US-5,476,103 | 19-Dec-1995 | Nahsner | | |
| | 33 | US-5,476,428 | 19-Dec-1995 | Potash et al. | | |
| | 34 | US-5,662,693 | 02-Sep-1997 | Johnson et al. | | |
| | 35 | US-5,690,389 | 25-Nov-1977 | Ekman et al. | | |
| | 36 | US-5,836,304 | 17-Nov-1998 | Kellinger et al. | | |
| | 37 | US-5,846,086 | 08-Dec-1998 | Bizzi et al. | | |
| | 38 | US-5,919,115 | 06-Jun-1999 | Horowitz et al. | | |
| | 39 | US-5,954,621 | 21-Sep-1999 | Jourtas et al. | | |
| | 40 | US-6,035,465 | 14-Mar-2000 | Rogozinski | | |
| | 41 | US-6,051,017 | 18-Apr-2000 | Loeb et al. | | |
| | 42 | US-6,057,828 | 02-May-2000 | Rosenberg et al. | | |
| | 43 | US-6,061,004 | 09-May-2000 | Rosenberg et al. | | |
| | 44 | US-6,246,200 | 12-Jun-2001 | Blumenkranz et al. | | |
| | 45 | US-6,270,445 | 07-Aug-2001 | Dean Jr. et al. | | |
| | 46 | US-6,478,721 | 12-Nov-2002 | Hunter | | |
| | 47 | US-6,645,126 | 11-Nov-2003 | Martin et al. | | |
| | 48 | US-6,774,885 | 10-Aug-2004 | Even-Zohar | | |
| | 49 | US-6,829,510 | 07-Dec-2004 | Nathan et al. | | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
| Examiner Initials* | Cite No. ¹ | Foreign Patent Documents | Publication Date DD-MMM-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T 6 |
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | 50 | JP 02-102652 | 16-Apr-1990 | Yokogawa | | |
| | 51 | EP 0304538 | 01-Mar-1989 | Futakami | | |
| | 52 | EP 0862930 | 09-Sep-1998 | Riva Violetta et al. | | |
| | 53 | JP 11-253504 | 21-Sep-1999 | Aoki | | |
| | 54 | JP 2002-127058 | 08-May-2002 | Kawakami | | |
| | 55 | JP 2003-164544 | 10-Jun-2003 | Yoshihiro et al. | | |
| | 56 | PCT WO 02/092164 | 21-Nov-2002 | Brodard et al. | | |
| | 57 | PCT WO 02/13673 | 21-Feb-2002 | Kotlik et al. | | |
| | 58 | PCT WO 2004/050172 | 17-Jun-2004 | Koeneman et al. | | |
| | 59 | PCT WO 2005/074369 | 18-Aug-2005 | Einav | | |
| Examiner Signature | | | Date Considered | | | |

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

(use as many sheets as necessary)

Complete if Known

| | |
|---------------|-------------------|
| Examiner Name | Not Yet Available |
|---------------|-------------------|

| | | | | | |
|-------|---|----|---|------------------------|-------|
| Sheet | 3 | Of | 5 | Attorney Docket Number | 34636 |
|-------|---|----|---|------------------------|-------|

FOREIGN PATENT DOCUMENTS

[illegible]

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

* **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² See *Kinds Codes of USPTO Patent Documents* at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|-------------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/597,635 |
| | | | | Filing Date | August 2, 2006 |
| | | | | First Named Inventor | Omer EINAV |
| | | | | Group Art Unit | Not Yet Available |
| | | | | Examiner Name | Not Yet Available |
| Sheet | 4 | Of | 5 | Attorney Docket Number | 34636 |
| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | | | | |
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ² |
| | 75 | Backlife "The Backlife Idea", Product Information, < http://www.backlife.com >, 27 P., 2003. | | | |
| | 76 | Bak "The Complex Motion of Standing Still. Hydraulics, Sensors, and Human Modeling Dsta-Unified by Proprietary Software", < http://www.designnews.com/article/CA73202 >, 5 P., 2001. | | | |
| | 77 | Burgar et al. "Development of Robots for Rehabilitation Therapy: The Palo Alto VA/Stanford Experience", Journal of Rehabilitation Research and Development, 37(6): 663-673, 2000. | | | |
| | 78 | Cameron et al. "Micromodular Implants to Provide Electrical Stimulation of Paralyzed Muscles and Limbs", IEEE Transactions on Biomedical Engineering, 44(9): 781-790, 1997. Abstract. | | | |
| | 79 | Graupe "EMG Pattern Analysis for Patient-Responsive Control of FES in Paraplegics for Walker-Supported Walking", IEEE Transactions on Biomedical Engineering, 36(7): 711-719, 1989. P.711, l-h Col., Paragraph 1 -r-h Col., Paragraph 1, Figs.3, 5, P.716, l-h Col., Figs. | | | |
| | 80 | Messinger "ReAbility Games: Island Hunt Catch'em Patrol Muzment", Detailed Specifications Document, NOKs Technologies, Version 1.0, 16 P., 2004. | | | |
| | 81 | Micromedical "BalanceQuest: Computerized Dynamic Posturography", Micromedical Technologies, < http://www.micromedical.com >, 6 P., 2001. | | | |
| | 82 | Motek "Motek Medical Rehabilitation: Rehabilitation", < http://www.e-motek.com >, 1 P. | | | |
| | 83 | Peasgood et al. "EMG-Controlled Dosed Loop Electrical Stimulation Using A Digital Signal Processor", Electronics Letters, 36(22): 1832-1833, 2000. P.1832, l-h Col., Paragraph 1, Fig.1, P.1833, r-h Col., Paragraph 1. | | | |
| | 84 | Pfurtscheller et al. "Brain Oscillations Control Hand Orthosis in A Tetraplegic", Neuroscience Letters, 292: 211-214, 2000. | | | |
| | 85 | Richardson et al. "Comparing Smooth Arm Movement With the Two-Thirds Power Law and the Related Segmented-Control Hypothesis", The Journal of Neuroscience, 22(18): 8201-8211, 2002. | | | |
| | 86 | Viviani et al. "Minimum-Jerk, Two-Thirds Power Law, and Isochrony: Converging Approaches to Movement Planning", Journal of Experimental Psychology: Human Perception and Performance, 17: 32-53, 1995. Abstract. | | | |
| Examiner Signature | | | | Date Considered | |

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.